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**POWER OF ATTORNEY TO PROSECUTE APPLICATIONS BEFORE THE USPTO****I hereby revoke all previous powers of attorney given in the application identified in the attached statement under 37 CFR 3.73(b).****I hereby appoint:**

Practitioners associated with the Customer Number:

26158

**OR**

Practitioner(s) named below (if more than ten patent practitioners are to be named, then a customer number must be used):

Name	Registration Number	Name	Registration Number

as attorney(s) or agent(s) to represent the undersigned before the United States Patent and Trademark Office (USPTO) in connection with any and all patent applications assigned only to the undersigned according to the USPTO assignment records or assignment documents attached to this form in accordance with 37 CFR 3.73(b).

Please change the correspondence address for the application identified in the attached statement under 37 CFR 3.73(b) to:



The address associated with Customer Number:

26158

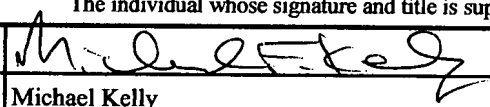
**OR**

<input type="checkbox"/> Firm or Individual Name			
Address			
City	State	Zip	
Country			
Telephone	Email		

Assignee Name and Address:

NOVARTIS ANIMAL HEALTH US, INC.  
3200 Northline Avenue, Suite 300  
Greensboro, NC 27408**A copy of this form, together with a statement under 37 CFR 3.73(b) (Form PTO/SB/96 or equivalent) is required to be filed in each application in which this form is used. The statement under 37 CFR 3.73(b) may be completed by one of the practitioners appointed in this form if the appointed practitioner is authorized to act on behalf of the assignee, and must identify the application in which this Power of Attorney is to be filed.****SIGNATURE of Assignee of Record**

The individual whose signature and title is supplied below is authorized to act on behalf of the assignee

Signature		Date	3/14/07
Name	Michael Kelly	Telephone	336-387-1008
Title	Chief Financial Officer		

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

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**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Griffiths, et al.Application No./Patent No.: 10/521,103 Filed/Issue Date: February 14, 2005Entitled: HSP70 FROM ARTHROBACTER

Novartis Animal Health US, Inc.

a corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by percentage) of its ownership interest is \_\_\_\_\_ %

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

2. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

3. From: \_\_\_\_\_ To: \_\_\_\_\_

The document was recorded in the United States Patent and Trademark Office at  
Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☒ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.



Signature

Carl B. Massey, Jr. (Reg. No. 44,224)

Printed or Typed Name

Attorney of Record

Title

Nov. 1, 2007

Date

336.721.3681

Telephone Number

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

ASSIGNMENT

I / We **Steven Gareth GRIFFITHS**, 239 Weldon Street, Moncton, New Brunswick, E1C 5W8,  
Canada, citizen of Great Britain  
**Rachael Jane RITCHIE**, 618 Aberdeen St., Fredericton, New Brunswick, E3B 1S5,  
Canada, citizen of Canada  
**Nathalie C. SIMARD**, 91 Piercy Crescent, Fredericton, New Brunswick, E3B 7G2,  
Canada, citizen of Canada

for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, do hereby sell and assign to **Novartis Animal Health US, Inc., a Delaware corporation, of 3200 Northline Avenue, Greensboro, North Carolina 27408, U.S.A.**, its successors, assigns and legal representatives all my/our right, title and interest, in and for the United States of America, in and to the invention entitled:

**Hsp70 from Arthrobacter**

invented by me/us and described in the international application

No. **PCT/EP03/07602** filed **July 14, 2003**

and all United States Letters Patent which may be granted therefor, and all divisions, reissues, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by the said **Novartis Animal Health US, Inc.** its successors, assigns or other legal representatives, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me/us if this assignment and sale had not been made;

And I/we hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the said **Novartis Animal Health US, Inc.**

  
\_\_\_\_\_  
**Steven Gareth GRIFFITHS**

Signed on

27/1/5

\_\_\_\_\_  
**Rachael Jane RITCHIE**

\_\_\_\_\_  
**Nathalie C. SIMARD**

ASSIGNMENT

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And I/we hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the said **Novartis Animal Health US, Inc.**

Signed on

\_\_\_\_\_  
**Steven Gareth GRIFFITHS**

\_\_\_\_\_  
**Rachael Jane RITCHIE**

\_\_\_\_\_  
*January 7, 2005*

\_\_\_\_\_  
**Nathalie C. SIMARD**

ASSIGNMENT

I / We **Steven Gareth GRIFFITHS**, 239 Weldon Street, Moncton, New Brunswick, E1C 5W8,  
Canada, citizen of Great Britain  
**Rachael Jane RITCHIE**, 618 Aberdeen St., Fredericton, New Brunswick, E3B 1S5,  
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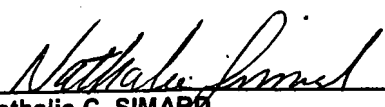
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And I/we hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to the said **Novartis Animal Health US, Inc.**

Signed on

\_\_\_\_\_  
**Steven Gareth GRIFFITHS**

\_\_\_\_\_  
**Rachael Jane RITCHIE**

  
\_\_\_\_\_  
**Nathalie C. SIMARD**

  
\_\_\_\_\_  
**11/01/2005**